

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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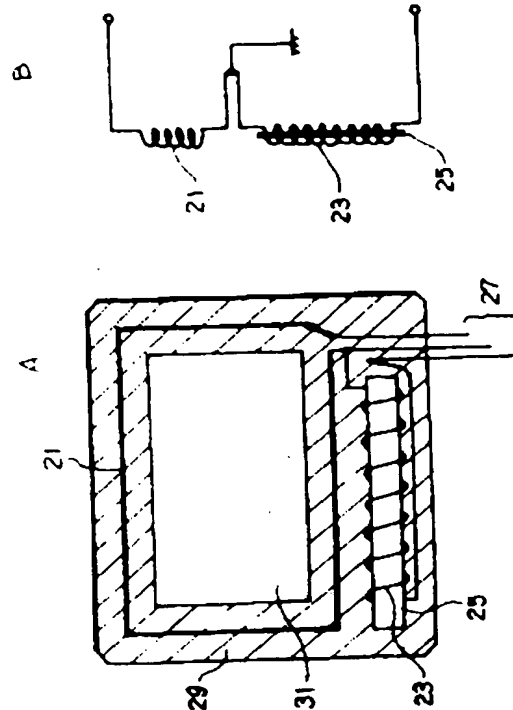
APPLICATION DATE : 29-02-80  
APPLICATION NUMBER : 55025863

APPLICANT : TOKO INC;

INVENTOR : ATOMACHI YUKISATO;

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TITLE : FM AND AM COMPOSITE ANTENNA



ABSTRACT : PURPOSE: To ensure an easy connection to a receiver and at the same time reduce the effect of the external noise for a composite antenna, by providing an AM antenna coil along an FM loop antenna.

CONSTITUTION: The FM loop antenna 21 has a lower level than the resonance impedance of the FM antenna tuning coil in a receiver, and is connected with matching to a proper impedance point of the FM antenna tuning coil in the receiver. The AM antenna coil 23 is wound around the magnetic substance bar 25 made of ferrite and in the form of a solenoid, and has a lower value than the resonance impedance of the AM antenna tuning coil to be connected with matching to a proper impedance point of the AM antenna tuning coil. A small-sized structure that can reduce the noise is realized for a composite antenna by setting the impedance at a low level.

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